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Sertifikaat

REPUBLIC OF SOUTH AFRICA

PATENT KANTOOR DEPARTEMENT VAN HANDEL EN NYWERHEID



Certificate 10/532566

REPUBLIEK VAN SUID-AFRIKA

PATENT OFFICE
DEPARTMENT OF TRADE AND
INDUSTRY

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the documents annexed hereto are true copies of:

Application forms P.1, P.2, provisional specification and drawings of South African Patent Application No. 2002/8595 as originally filed in the Republic of South Africa on 24 October 2002 in the name of LIONEL NICOLAS MANTZIVI for an invention entitled:

"BAGS WITH HANDLES".

Geteken te

PRETORIA

Signed at

in die Republiek van Suid-Afrika, hierdie

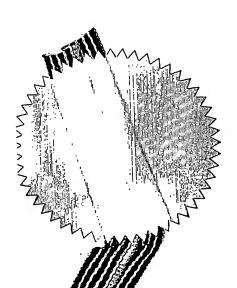
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February 2004

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Registrar of Patents



PRIORITY DOCUMENT

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Full name(s) of inventor(s):	NICOLAS MAN	nzivi	Number			Date .
Full name(s) of inventor(s): 72	NICOLAS MAN				32	Date .
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PATENT AND ACKNOWIE APPLICATION FOR

[Section 30 (1)—Regulation 22] (See notes overleaf)

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he grant of a patent is hereby requested by the under	mentioned appropriate the base ;
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(li)	LIONEL NICOLAS MANTZIVI
Full name(s) of applicant(s)	LIONEL STO
(iii)	46 ST CHRISTOPHER 20
Address(es) of applicant(s)	BEDFORDVIEW JOHANES 13URG 2001
(iv);	
Title of invention SAG WITH 1-HANDE	<i>ا</i> لا .
(v)	
The applicant claims priority as set out on the accompany	ying form P 2.
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(viii) This application is accompanied by:	6
A single copy of a provisional or two copies of	of a complete specification of
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Publication particulars and abstract (form P 8	3 in duplicate).
4. A copy of Figureof drawings (if an	ny) for the abstract.
5. An assignment of invention.	
6. Certified priority document(s) (state number)).
7. Translation of the priority document(s).	
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EPUBLIC OF SOUTH AFRICA PATENTS ACT, 1978 DECLARATION AND POWER OF ATTORNEY

(Section 30 - Regulation 8, 22(i)(c) and 33)

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FULL NAME(S) OF INVENTOR(S)			1
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TITLE OF INVENTION			
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hereby declare that :-	above:		
* 1. I/we am/are the applican	(s) mentioned accion	this declaration and have knowledge of	the facts herein the applicant(s);
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REPUBLIC OF SOUTH AFRICA PATENTS ACT, 1978

PROVISIONAL SPECIFICATION

(Section 30(1) - Regulation 27)

Official Application No.

21

01, 2002/8595

Lodging Date

22

2002 10- 24

Full name(s) of applicant(s)

71

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MANTZIUI

Full name(s) of inventors(s)

LIONEL 72

NICOLAS

MANTZIVI

Title of invention

54 134GS

HANDLES wiTH

Bag with handles

The current invention relates to a method and process of manufacturing a package, and/or, bag with a handle.

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The package and /or bag can also be manufactured to be closed at one or both ends with a built in handle.

Background to the invention

The packaging industry in South Africa is very competitive and manufactures are looking for ways to enhance their products.

In one area notably the polyethylene and woven polypropylene manufactures are offering packaging systems with handles attached to and punched into the bags.

Many have labours processes to manufacture these types of bags and packaging systems.

The inventor is unaware of any prior art in this field

The inventor is aware of the methods of manufacturing of different types of containers and bags from woven polypropylene and polyethylene.

The inventor envisages a future process in the manufacture of the said container or bag as to the automated process in the construction of a block bottom valve bag or container and is understood as the invention.



According to a first aspect of the invention there is provided

- A process for the manufacture of a bag or container
-from a woven plastic material, a plastic film, paper or the like,
namely with the use of a machine, but can be produced by means
of a manual process.
namely a block bottom bag.

According to second aspect of the invention there is provided

-A process for closing the said bag or container at defined positions by means of heat welding, sewing, sound or the like, by an automated process or by hand.

According to a third aspect of the invention there is provided

-A process for creating a handle using the bags material, and/ or a separate piece of material and / or insertion of an object to act as a handle.

In one embodiment, a container is manufactured according to the first aspect of the invention.

According to the second aspect of the invention a strip of material used to close or create the bottom and or top of the bag, used in forming the cover piece to secure one or two ends of the said bag. The said strip is of a width greater than that of the block bottom size, the section formed at one or more ends.

This said strip of material can be folded and then pasted, welded or sewn to the bottom section of the T that is formed if the bag is looked at from a side view block bottom, that is created in the forming of the bag, that will create a double layer of material, a hole that will be used as the handle can then be introduced.

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The bag constructed in such a manner will give the handle strength in two directions, as the bonding, or weld is weak in one of the directions.

Alternatively this strip can be left unfolded and used as the handle.

It understood that this is a closed end, or bag.

The said bag can be of an open mouth type or valve.

Where the said bag is of the open mouth type it can be filled then closed.

Once the bag is filled it can then picked up by the two handles.

It is understood that the material between the sewn portions that are the handles, will be cut so to allow access to the product Contained in the bag, and once the said product is used or the bag emptied, the bag can then be used for some other means.

In another embodiment, a container is manufactured according to the first aspect of the invention.

According to the second aspect of the invention a strip of material used to close or create the bottom and or top of the bag, used in forming the cover piece to secure one or two ends of the said bag. A second strip, of a width greater than that of the block bottom size, is pasted, welded or sewn to the section that has formed the block bottom at one or more ends.

In another variant of the said process the bottom layers may be folded in on themselves to cover a protective unit so that the said folded portion does not rest directly on themselves but on the protective unit. This unit can be made of a metal or any other solid material.

The top layer can then be folded in on it's self to cover the folded bottom portion of the fabric that is resting on a separating material in the said process.

Where the two layers overlap there is a device that causes the two materials to bond, either by heat, sound, glue or any other means.

A2002/8595

At a given position the two adjacent folded layers are bonded together by any of the

The bonded portion becomes a double-layered portion of the said package, or bag.

A handle can be attached to this portion of the unit, or a handle can be introduced by means of punching a hole or slot to the said double layer of material.

The said handle would be in an area above the bonded portion if the bag is to be bonded at a specific position or would fall into an area that is bonded but would not allow any of the contents of a filled package to escape when in any position.

Thus it is said that the bag can have at least one end, two reinforced or double layers of fabric that will be suitable for imbedding a handle or a attaching a device that will serve as a handle.

It is also understood that at least one end of the said bag it would be closed, and that at this position there would be one or two of the said handles.

It is also understood that at this position a portion of the material can be cut to open the said bag, and to have at least two handles to carry the said bag with an open mouth.

It is envisaged that this bag, once the contents have been emptied can be further used for other means.

It is understood that this manufacturing process can be in stages or can be in a continuous process.

It is understood that this process can be automated (made by a machine) but can also be done by a human.

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The invention will now be described, by way of non-limiting examples only, with references to the accompanying drawings.

In the drawings,

- Figure 1 shows in schematic representation, a block bottom bag broadly in accordance with the invention;
- Figure 2 shows in schematic representation, a bottom of a block bottom bag with a pasted layer / handle, broadly in accordance with the invention;
- Figure 3 shows in schematic representation, a bottom of a block bottom bag with an integrated cloth handle, broadly in accordance with the invention;
- Figure 4 shows in schematic representation, a bottom of a block bottom bag with an inserted plastic handle, broadly in accordance with the invention;
- Figure 2b shows in schematic representation, a side view of a block bottom bag broadly in accordance with the invention;
- Figure 3b shows in schematic representation, a side view of a block bottom bag broadly in accordance with the invention;

In figure 1, reference numeral 15 indicates a folded, pasted, welded or glued block bottom

In figures 3, 3b, 4 and 4b, reference numerals 11 indicates a closed separate area or cavity of the bag,

In figures 3, 3b, 4 and 4b, reference numerals 11b indicates a weld, or welded area of the bag,

In figures 2 and 3, reference numerals 10 indicates a punched handle,

In figures 2, 2b, 3, 3b, 4 and 4b, reference numerals 16 indicates an area that is of the main bag,

if this area is cut it will open the bag,

In figures 2, reference numerals 14 indicate holes within the closed area as described above,

In figures 2b, reference numerals 14 indicate welding, sewing or pasting in this area so that when the bag is lifted the handle fabric provides strength in two directions,

In figures 2b, reference numerals 11b indicate welding, sewing or pasting in this area,

In figures 2b, 2c, 3b and 4b, reference numerals 17 indicates the main area of the bag,

In figures 3 and 3b, reference numerals 13 indicates an area that is of the main bag, if this area is cut it will open the bag,

DATED THIS 24th DAY OF OCTOBER 2002

